		Dimensions Math Textbook 8B	
Page	Question or Section	Error	Date Added
9	Chapter 8, 3rd P	In the following activity, we shall see how we can determine the	8/22/2014
9	Class Activity 4, 2(b)	in pass per square meter if the function is linear.	1
19	Chapter 5, Class activity, 1(a)(i)	Numbers in second row are incorrect. Leave them out or replace with 8, 4.5, 2, 0.5, 2, 4.5	2/5/2015
19		Numbers in second row are incorrect. Leave them out or replace with 8, 4.5, 2, 0, 2, 4.5, 8	2/5/2015
26	Chapter 5, Try It, 5	When David hits a soccer ball with his head,	
51	Chapter 9, Rev. Ex. 9, 6	After the goods were delivered at the second destination,	
97	Chapter 11, Rev. Ex. 11, 2(d)	Omit. The problem cannot be solved using knowledge students have currently been taught.	
97	Chapter 11, Rev. Ex. 11, 3(e)	Find the coordinates of the point where line AC cuts the <i>y</i> -axis.	10/24/2018
130	Chapter 12, Ex. 13	In figure of blue sphere, change centre to center. In third paragraph under B, insert space in last sentence, radius of.	
132	Chapter 12, Ex. 14	Label the second part of the solution as (b).	
138	Chapter 12, Ex. 14	In figure of blue sphere, change centre to center.	
141	Rev. Ex. 12, 13	ABCD is a trapezoid,	
152	Chapter 13, Ex. 13.1, 5(c)	Find the percentage of students who obtained grade A or grade B.	
158	Chapter 13, 2nd P	The diagram on the right shows a stacked bar graph which displays the number of	
160	Chapter 13, Ex. 13.2, 1(c)	Which snack foods were preferred	
160	Chapter 13, Ex. 13.2, 1(d)	Name the top three preferred snack foods among	
175	Chapter 13, Ex., 13.3, 2	in one town from 2006 to 2014.	
181	Chapter 13 Rev., Ex. 13,	and US Dollars (USD)	
183	Chapter 14	In box lower right: If the distance, s meters, traveled by a car	
188	Chapter 14, Class Activity, 1	The same figures are shown twice in this activity. Only one is needed.	
195	Chapter 14, Ex. 14.3, 5	Its vertical distance, $h$ meters, from the ground	
200	Chapter 14 , Speech bubble	Express other quantities in terms of this letter.	
203	Chapter 14, Ex. 14.5, 10	At 1:00 P.M., Bob	
203	Chapter 14, Ex. 14.5, 13	The distance s meters traveled by	
204	Chapter 14, Ex. 14.5, 15	A tank holds 50 liters of water.	
208	Ex. 8.1, 3(a)	-0.6 L/h; 0.6 L of water leaves the container every hour.	1
208	Ex. 8.1, 3(c)	After 24 hours, no water is left.	
208	Ex. 8.1, 5(a)(ii)	Yes; 15	
208	Ex. 8.1, 10(b)	-9 °C/hr. The temperature of the tea drops by 9 °C every hour.	
208	Ex. 8.1, 11(b)	Same $y$ -intercept; $y$ -intercept = $-2$ .	
208	Ex. 8.1, 13(a)	Same $y$ -intercept; $y$ -intercept = $-2$ . y 70 100 130 160	<del> </del>
			<del> </del>
208	Ex. 8.1, 13(b)	y = 30x + 40	

209	208	Ex. 8.1, 13(d)	\$ 115	
209 Rev. Ex. 8, 1(b) Slope = 2; y-intercept = −1 209 Rev. Ex. 8, 6(c) 1.6, 4.4 209 Rev. Ex. 8, 7(c) 1.6, 4.4 209 Try (t. 3(b) 08.45 209 Try (t. 3(b) 08.45 209 Try (t. 4(c)(iii) 10.40 A.M. 209 Try (t. 5(a) 160 m 209 Try (t. 5(b) (i) 8 m/s; (iii) 16 m/s; (iii) 11 3/7 m/s 210 Ex. 9.1, 3 Delete the line: (i) 32; (ii) 50; (iii) 26.6 210 Ex. 9.1, 7(c) 1.6 (iii) 13.1 (iii) 2.6 (i				
209 Rev. Ex. 8, 6(c) 1.6, 4.4 209 Rev. Ex. 8, 7(c) (−2.5, 2.5) lies on the graph; (0.5, 9.5) lies above the graph. 209 Try It, 4(c)(iii) 0.845 209 Try It, 4(c)(iii) 10.40 A.M. 209 Try It, 5(d) 160 m 200 Ex. 9.1, 3 Delete the line; (i) 32; (ii) 50; (iii) 26.6 210 Ex. 9.1, 4(b) (i)32; (ii)50; (iii) 26.6 210 Ex. 9.1, 7(c) 1 euro = US\$1.26 210 Ex. 9.2, 2(d) 13 1/3 km/h 210 Ex. 9.2, 2(d) 13 1/3 km/h 210 Ex. 9.2, 3(a) (i) 83 1/3 m/min (ii) 55 5/9 m/min 210 Ex. 9.2, 3(c) Mrs. Brown traveled for 12 minutes at a uniform speed of 83 1/3 m/min to a place 1,000 m from her starting point P. She then returned to the starting point at a uniform speed of 55 5/9 m/min in 18 minutes. 210 Ex. 9.2, 4(c) iii Alicia met John at a place 56 km from P, 1 hour 24 minutes after she had started her journey. 210 Rev. Ex.9, 2(c) 11 min 211 Ex. 10.2, 3 ∠ 2 P.M. Saturday 212 Rev. Ex.9, 3(c) 2 P.M. Saturday 213 Rev. Ex.9, 3(d) 2 P.M. Saturday 214 Ex. 10.2, 10(c) 372 m 215 Ex. 10.2, 10(c) 372 m 216 Ex. 10.2, 10(c) 372 m 217 Ex. 10.3, 7(a) 17 m 218 Ex. 10.9, 10(a) 21.9 miles 219 Ex. 11.1, 5(d) 17 units² 210 Ex. 11.3, 4(e) y = -3x + 15				
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209       Try It, 4(c)(ii)       9.43 x M; 14.3 km away from P         209       Try It, 5(a)       160 m         209       Try It, 5(b)       (i) 8 m/s; (ii) 16 m/s; (iii) 11 3/7 m/s         210       Ex. 9.1, 3       Delete the line: (i) 32; (ii) 50; (iii) 26.6         210       Ex. 9.1, 4(b)       (i) 32; (ii) 50; (iii) 26.6         210       Ex. 9.1, 7(c)       1 euro = US\$1.26         210       Ex. 9.2, 2(b)       13 1/3 km/h         210       Ex. 9.2, 3(a)       (i) 83 1/3 m/min (ii) 55 5/9 m/min         210       Ex. 9.2, 3(b)       66 2/3 m/min         210       Ex. 9.2, 3(c)       Mrs. Brown traveled for 12 minutes at a uniform speed of 83 1/3 m/min to a place 1,000 m from her starting point P. She then returned to the starting point at a uniform speed of 55 5/9 m/min in 18 minutes.         210       Ex. 9.2, 4(c)(iii)       Alicia met John at a place 56 km from P, 1 hour 24 minutes after she had started her journey.         210       Rev. Ex.9, 3(c)       11 min         210       Rev. Ex.9, 3(c)       11 min         211       EX. 10.2, 3 (c)       2 P.M. Saturday         212       EX. 10.2, 10(b)       2 P.M. Saturday         211       EX. 10.2, 10(b)       0C = 300 m, OD = 220 m         211       EX. 10.2, 10(c)       372 m         21	209			
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211 EX. 10.2, 10(b)	210	Rev. Ex.9, 4(c)	10 km away	
211 EX. 10.2, 10(c) 372 m 211 Ex. 10.3, 7(a) 17 m 211 Rev. Ex. 10, 9(a) 21.9 miles 211 Rev. Ex. 10, 9(b) 25.8 miles 212 Ex. 11.1, 5(d) 17 units <sup>2</sup> 212 Ex. 11.2, 10(a) slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , slope of $RS = \frac{1}{2}$ , slope of $SP = -2$ 212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(f) $y = \frac{1}{2}x - 3$ 213 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 214 Pay Ex. 11, 3(e) $(0, \frac{11}{5})$	211	EX. 10.2, 3	$\angle ABC$ is a right angle. $\angle ADC$ is not a right angle.	
211 Ex. 10.3, 7(a) 17 m 211 Rev. Ex. 10, 9(a) 21.9 miles 211 Rev. Ex. 10, 9(b) 25.8 miles 212 Ex. 11.1, 5(d) 17 units <sup>2</sup> 212 Ex. 11.2, 10(a) slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , slope of $RS = \frac{1}{2}$ , slope of $SP = -2$ 212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(f) $y = -\frac{1}{2}x - 3$ 213 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 214 Pay Ex. 11, 3(e) $(0, \frac{11}{5})$	211	EX. 10.2, 10(b)	<i>OC</i> = 300 m, <i>OD</i> = 220 m	
211 Rev. Ex. 10, 9(a) 21.9 miles 211 Rev. Ex. 10, 9(b) 25.8 miles 212 Ex. 11.1, 5(d) 17 units <sup>2</sup> 212 Ex. 11.2, 10(a) slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , slope of $RS = \frac{1}{2}$ , slope of $SP = -2$ 212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(f) $y = \frac{1}{2}x - 3$ 212 Ex. 11.3, 7(b) $y = \frac{1}{5}x - \frac{13}{5}$ 213 Rev. Ex. 11, 3(e) $(0, \frac{11}{5})$	211	EX. 10.2, 10(c)	372 m	
211 Rev. Ex. 10, 9(b) 25.8 miles 212 Ex. 11.1, 5(d) 17 units <sup>2</sup> 212 Ex. 11.2, 10(a) slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , slope of $RS = \frac{1}{2}$ , slope of $SP = -2$ 212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(f) $y = \frac{1}{2}x - 3$ 212 Ex. 11.3, 4(f) $y = -\frac{1}{5}x - \frac{13}{5}$ 212 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 213 Rev. Ex. 11, 3(e) $(0, \frac{11}{5})$	211	Ex. 10.3, 7(a)	17 m	
212 Ex. 11.1, 5(d) 17 units <sup>2</sup> 212 Ex. 11.2, 10(a) slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , slope of $RS = \frac{1}{2}$ , slope of $SP = -2$ 212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(f) $y = \frac{1}{2}x - 3$ 213 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 214 Rev. Ex. 11, 3(e) $y = \frac{3}{4}x - 3$		Rev. Ex. 10, 9(a)	<b>21.9</b> miles	
212 Ex. 11.2, 10(a) slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , slope of $RS = \frac{1}{2}$ , slope of $SP = -2$ 212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(e) $y = \frac{1}{2}x - 3$ 213 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 214 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 215 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$		Rev. Ex. 10, 9(b)	25.8 miles	
slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ , $SIOPE OF RS = \frac{1}{2$	212	Ex. 11.1, 5(d)	17 units <sup>2</sup>	
212 Ex. 11.3, 4(b) $y = -3x + 15$ 212 Ex. 11.3, 4(e) $y = \frac{1}{2}x - 3$ 212 Ex. 11.3, 4(f) $y = -\frac{1}{5}x - \frac{13}{5}$ 213 Rev. Ex. 11, 3(e) $y = \frac{3}{4}x - 3$ 214 (0, $\frac{11}{5}$ )	212	Ex. 11.2, 10(a)	slope of $PQ = \frac{1}{2}$ , slope of $QR = -2$ ,	
212 Ex. 11.3, 4(e) $y = \frac{1}{2}x - 3$ 212 Ex. 11.3, 4(f) $y = -\frac{1}{5}x - \frac{13}{5}$ 213 Rev. Ex. 11, 3(e) $y = \frac{3}{4}x - 3$ 214 (0, $\frac{11}{5}$ )			slope of $RS = \frac{1}{2}$ , slope of $SP = -2$	
212 Ex. 11.3, 4(e) $y = \frac{1}{2}x - 3$ 212 Ex. 11.3, 4(f) $y = -\frac{1}{5}x - \frac{13}{5}$ 212 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 213 Rev. Ex. 11, 3(e) $(0, \frac{11}{5})$	212	Ex. 11.3, 4(b)	y = -3x + 15	
$y = -\frac{1}{5}x - \frac{1}{5}$ 212 Ex. 11.3, 7(b) $y = \frac{3}{4}x - 3$ 213 Rev. Ex. 11, 3(e) $(0, \frac{11}{5})$	212		$y = \frac{1}{2}x - 3$	
$y = \frac{3}{4}x - 3$ 213 Rev. Ex. 11, 3(e) (0, $\frac{11}{5}$ )	212	Ex. 11.3, 4(f)	$y = -\frac{1}{5}x - \frac{13}{5}$	
(0, - <u>5</u> )	212	Ex. 11.3, 7(b)	$y = \frac{3}{4}x - 3$	
213 Rev. Ex. 11, 9(b) $AB = \sqrt{160}$ units, $AD = \sqrt{40}$ units	213	Rev. Ex. 11, 3(e)	$(0,\frac{11}{5})$	
	213	Rev. Ex. 11, 9(b)	$AB = \sqrt{160}$ units, $AD = \sqrt{40}$ units	

213	Rev. Ex. 11, 10(a)	P (1,0)				T
213	Try It, 4(b)	576 cm <sup>3</sup>				
214	Ex. 12.2, 15(d)	900 cm <sup>3</sup>				+
214	Ex. 12.4, 1(b)	Surface area = 28.3 ft <sup>2</sup> , Volume =	+			
214	Ex. 12.4, 1(c)	Surface area = 28.3 it, volume =		3		+
214	Ex. 12.4, 3(b)	442 in. <sup>3</sup>	= 3050 in	•		10/24/2018
214	Rev. Ex. 12, 1(c)					10/24/2018
214	Rev. Ex. 12, 1(c)	44.2 in. <sup>2</sup>				+
214	Rev. Ex. 12, 11(c)	7590 lb				
216	Ex. 13.1, 4(a)	The percentages under Boys : 24%, 16%, 60%, 100% The percentages under Girls : 28%, 40%, 32%, 100%				
216	Ex. 13.1, 7(c)	Students 7 <sup>th</sup> Grade 8 <sup>th</sup>	Grade	Total		
		Country 20%	10%	15%		
		Hip Hop 25%	35%	30%		
		Jazz 10%	25%	17.5%		
		Rock 45% Total 100%	30% 100%	37.5% 100%		
21.0	F <sub>1</sub> , 12.1.0/b)	Add % after each of the values in				1
216 217	Ex. 13.1, 8(b) Ex. 13.1, 9(b)	Value under <b>Men</b> for <b>Watching T</b>				+
217	Ex. 13.1, 5(b)		V SHOULU		Т	
	LX. 13.1, 11(u)	Number of hours Tally $0 < x \le 3$ +++++	///	Frequency 13	-	
		3 < x ≤ 6 ++++ //	,,,	7	1	
		6 < x ≤ 9 ////		4		
		9 < x ≤ 12 ///		3	]	
			Total	27		
217	Ex. 13.1, 12(a)	Lifetime of batteries Tally (in hours)		Frequency		
		0 < x ≤ 2		0		
		2 < x ≤ 4 <del>////</del> /		6		
		4 < x ≤ 6 //// //	,,,	7		
		6 < x ≤ 8 //// //// 8 < x ≤ 10 ////	///	13 4		
			Γotal	30		
		-				
217	Ex. 13.2, 9(d)	$45 < t \le 50$				
217 218	Ex. 13.3, 2(b) Ex. 13.3, 9(b)	7.8 million	ttered in	a way that day	as not	1
210	LA. 13.3, 3(U)	The data points are randomly scattered in a way that does not approximate a line.				
218	Ex. 13.3, 9(c)	No, there is no correlation.				
218	Ex. 13.3, 12(c)(i)	0.083				
218	Ex. 13.3, (c)(ii)	$y = \frac{1}{12}x + 2$				
218	Try It, 5(b)	_				
	11,11,5(0)	$\left(\frac{2}{5}\right)^2$				
219	Try It, 12	The value of $y$ when $x$ is 1 should	d be –2.			
219	Try It, 16	x = 7.45; 15.4 cm				
219	Ex. 14.3, 2(d)	x = -1.89, x = 2.39				
220	Ex. 14.5, 10	2:12 P.M.				
220	Rev. Ex. 14, 10(a)(iii)	420				
220	Rev. Ex. 14, 12(C)	10.2 gallons				

Dimensions Math Textbook 8B includes activities using The Geometer's Sketchpad, which is no longer available. We recommend using GoeGebra instead.

	Dimensions Math Workbook 8B				
Page	Question or Section	Error			
6	Chapter 8, 14	The points $A(-3, -1)$ , $B(3, 11)$ , $C(0, m)$			
8	Chapter 8, 23	The altitude y meters of a			
9	Chapter 8, 25	The profit (in thousands of dollars) of a company where x (in thousands of dollars)			
10	Chapter 8, 27	The equations of two linear functions			
11	Chapter 9, 1	The following table shows the quarterly revenues and expenditures of a company			
11	Chapter 9, 2(a)(ii)	Which bookstore's ruler is the most expensive?			
21	Chapter 9, 22	Delete period at end of line.			
26	Chapter 9, 29	Her average speed during the $p$ minutes is $1\frac{2}{3}$ m/s.			
35	Chapter 10, 25(b)	Apply the Pythagorean Theorem			
36	Chapter 1, 28	In the figure, the three circles with centers at			
42	Chapter 11, 28	The figure shows an L-shaped region			
56	Chapter 13, 4	The table on the left and the table on the right show the responses from the			
64	Chapter 13, 22(c)	Describe the correlation between the two variables.			
68	Chapter 13, 29	the total weight of fruits produced from each tree was measured.			
78	Chapter 14, 26(b)	Leave your answer with square root signs.			
80	Chapter 8, 23(c)	37.5 m, 3.5 s			
82	Chapter 10, 14(b)(ii)	5.10 cm			
82	Chapter 10, 14(c)	219 cm <sup>2</sup>			
86	Chapter 13, 16(b)	Investments row, Total column: 23.25			
87	Chapter 13, 23(b)	(a) should be (b)			
87	Chapter 13, 33(d)	(a) should be (d)			

	Dimensions Math Workbook Solutions 8B			
Page	Question or Section	Error		
3	Chapter 8, 6(h)	The equation on the graph should be $y = -2x^2 + 4x + 11$		
5	Chapter 8, 14	Question, The points $A(-3, -1)$ , $B(3, 11)$ , $C(0, m)$		
5	Chapter 8, 14(b)	Solution, Using points A and B,		
		Method 1  5th line:  2n = -5		
8	Chapter 8, 23	The altitude y meters of a		
8	Chapter 8, 23(b)	Solution, The equation on the graph should be: $y = t2 - 7t + 11$ The y-axis should be labeled: Altitude (m)		
9	Chapter 8, 25	Question, The profit (in thousands of dollars) of a company where x (in thousands of dollars)		
10	Chapter 8, 26(a)	Solution, The equation on the graph should be: V = -30t + 200		
10	Chapter 8, 27	Question, The equations of two linear functions		

10	Chapter 9, 1	Question, The following table shows the quarterly revenues and expenditures of a company
15	Chapter 9, 14(c)(ii)	Solution, mass of gold that is worth \$9,600 = 8 troy ounces
16	Chapter 9, 18	Question, The distance-time graph should be below the question.
16	Chapter 9, (a)(i)	From 09:00 hour to 09:11 hours.
18	Chapter 9, 21(a)(i)	Solution, Volume of water in container at depth of 12 cm
20	Chapter 9, 25	Question, The y-axis should be labeled:
20	Chapter 3, 23	Distance from P (miles)
	a	
22	Chapter 9, (b)	Solution, 7th line: $P = \frac{80}{6} \times \frac{3}{5}$
		6 <sup>5</sup>
27	Chapter 10, 14(b)(ii)	Solution,
27	Chapter 10, 14(b)(ii)	$WY^2 = WX^2 - XY^2$
		$=13.5^2-12.5^2$
		= 26.0 (correct to 3 sig. fig.)
		$WY = \sqrt{26}$
		= 5.10 cm (correct to 3 sig. fig.)
27	Chapter 10, (c)	Solution,
		Area of $\Delta WXZ = \frac{1}{2} \times 12.5 \times (30 + \sqrt{26})$
		2 = 219 cm2 (correct to 3 sig. fig.)
		= 215 cm2 (correct to 5 sig. rig.)
30	Chapter 10, 23	Question, The figure is missing.
31	Chapter 10, 24(b)	Solution, 5th line:
		$(1) \times 2: 2p + 2q = 8 \dots (3)$
32	Chapter 10, 25(b)	Apply the Pythagorean Theorem
33	Chapter 10, 28	Question, In the figure, the three circles with centers at BC = 8 cm
33	Chapter 10, 28	Solution, Let x cm, y cm, and z cm be the radii of the circles with centers at
42	Chapter 11, 22(c)	Solution, 2nd to last line:
		= 1.15233 x 0.25
44	Chapter 11, 28	Question, The figure shows an L-shaped region
47	Chapter 12, 7(c)	Solution, Total surface area = $\pi \times 162 + \pi \times 16 \times 34$
47	Chapter 12, 8	Question, The base diameter of each cone is 14 cm
50	Chapter, 12 18(b)	Solution, 4th line: r = 15
55	Chapter 12, 34(b)	Solution, 2nd to last line:
	, , , , , ,	
	4\	$=\sqrt[3]{\frac{3}{2}}$
_/		12
56	Chapter 12, 35(a)	Solution, 12th line:
		$(\sqrt{2})^2 (\sqrt{2})^2$
$\cap$	1 1	$\left(\sqrt{2}y\right)^2 - \left(\frac{\sqrt{2}}{3}y\right)^2$
		, f
58	Chapter 13, 4	Question, The table on the left and the table on the right show the responses from the
62	Chapter 13, 16(b)	Solution, Investments row, Total column: 23.25
63	Chapter 13, 18(b)	Solution, 2006 difference = $50 - 14 = 36$
64	Chapter 13, 21(a)	Solution, In the graph, the point representing 2005 is incorrectly placed. It should be at
	7, ==(=,	371.
65	Chapter 13, 22(c)	Question, Describe the correlation between the two variables.
	1	,,

65	Chapter 13, (b)	Solution, The point at (65, 1.65) is incorrectly placed. It should be at (54, 1.65). The point at (54, 1.72) is incorrectly placed. It should be at (64, 1.72).		
65	Chapter 13, 23(b)(ii)	4th line: = 29%		
67	Chapter 13, 27	Question, Vertical label on chart: Puzzle B (x minutes)		
67	Chapter 13, (a)	Solution, Vertical label on chart:		
68	Chapter 13, (b)	Solution, Graph for Puzzle B Frequency bar for 10-15 min should be to 13.		
68	Chapter 13, 28(d)	Solution, So it is not possible to call when the user is away.		
68	Chapter 13, 29	Question, the total weight of fruits produced from each tree was measured.		
69	Chapter 13, 29(a)	Solution, The point at (60, 12.8) is incorrectly placed. It should be at (60, 13.1). The label on the y-axis should include the units (kg). The x axis should extend to 70. The corresponding masses for 70 cm2 are missing.		
69	Chapter 13, 30(c)	Solution, The statement is true if the number of members is the same every year.		
69	Chapter 13, 30(d)	Solution, Change member to members in 3 places.		
70	Chapter 13, 31(c)	Solution,the scale of the vertical axis on Rick's		
70	Chapter 13, 32(c)	Solution, Thus the graph gives readers the impression that the revenue in Year 3 is 4.6 times that in Year 1.		
70	Chapter 13, 33(a)	Solution, The chart is missing the point (0, 82).		
71	Chapter 14, 2(d)	Solution, Last line: = -1.11 or 8.11 (correct to 3 sig. fig.)		
72	Chapter 14, 2(g)	Solution, 2nd line: $x^{2} + \frac{3}{4}x - \frac{3}{2} = 0$ 5th line: $\left(x + \frac{3}{8}\right)^{2} = \frac{105}{64}$		
76	Chapter 14, 11(f)	Solution, 5th and 6th line: $\left(x + \frac{7}{4}\right)^2 - \left(\frac{7}{4}\right)^2 = 3$ $\left(x + \frac{7}{4}\right)^2 = \frac{97}{16}$		
76	Chapter 14, 11(g)	Solution, 5th and 6th line:		
		$\left(x + \frac{23}{6}\right)^2 - \left(\frac{23}{6}\right)^2 = -\frac{25}{3}$ $\left(x + \frac{23}{6}\right)^2 = \frac{229}{36}$		
79	Chapter 14, 15(b)	Solution, Last line: = -0.823 or 1.82 (correct to 3 sig. fig.)		
80	Chapter 14, 17(b)(i)	Solution, Last line: = 12,942 cm <sup>3</sup> (correct to 3 sig. fig.)		
81	Chapter 14, 19(a)(ii)	Solution, Area of unshaded region = area of <i>EBCH</i> + Area of <i>GFH</i>		
82	Chapter 14, 23(c)	Solution, Second line: $= \frac{-16 \pm \sqrt{576}}{32}$		
83	Chapter 14, 26(b)	Question, Leave your answer with square root signs.		

Question or Section							
40.0	Error						
10.3	Application:	s of Pytl	nagorean	Theorem			
13.3			graph, last	sentence	: on sca	tter plots	and to analyze the
	correlation						
13.3			line: a s	imple pro	ject on da	ita collect	ion, organization,
	•						
Class Activity 5, (d)(i)							
		_				i) both pa	ss through (0, 0) at the lowest
	part of their	curve, l	out have d	lifferent w	idths.		
Class Activity 5, (d)(ii)	Graph (viii)	(-1, <mark>2</mark> )					
Class Activity 5, (d)(v)			v), (vi), an	d (vii) mee	et the x -a	xis at one	point. Graphs (iv) and (viii)
,	cross the $x$ -	axis at t	wo points				
Class Activity 5, (d)(vi)	Graph (viii);	x = 1					
Class Activity 6, 6(b)	Answer: Or	graph,	change (vi	i) to (iv).			
Class Activity 6, 6(c)(i)							
Class Activity 6, 6(c)(iv)	Answer:	graph (i	v) meets t	he axis at	2 points,	and graph	i (iii) meets the axis at 0
	points.						
Try It, 4(s)		e line of	symmetr	y of the gr	raph is x =	3. Theref	ore the minimum distance is
• • • •		the cha	rt, replace	e x with t	and y with	n <i>h</i> .	
Ex. 8.1, 4(a)	Solution:	х	-3	-1	0	3	
			7	2	1	-	
		У	-/	-3	-1	5	
Ex. 8.1, 5(a)(ii)	Solution: Si	nce the	total char	ge increas	es by \$50	for every	car rented, the function is
	linear. Rate	of chan	ge = \$ <mark>50</mark> /c	ar			
Ex. 8.1, 10(a)	Solution: Th	e graph	is incorre	ct. Only th	e first poi	int on the	graph, (0, 96) is placed
	correctly.						
Ex. 8.2, 4	Solution: Th	e solutio	on is label	ed incorre	ctly, and	should be	(a), (b), (c), (d), (e) rather
	than (a), (b)	, (b), (c),	(d).				
Ex. 8.2, 5(a)-(b)	Solution: Th	e graph	s should b	e unlabele	ed and the	parts fol	lowing it labeled (i), (ii), (iii)
	and (iv).						
Ex. 8.2, 5(c)(iv)	Solution: y-	intercep	ot = 6				
Rev. Ex. 8, 1	Solution: D	elete pa	rt (d). Cha	nge (c) to	(b). Move	graph to	be last and label it (c). For
	new (b):						
	Slope =						
Rev. Ex. 8, 2(a)			•	•	correct. Th	ne x-axis s	hould be Distance (miles) and
				n).			
Rev. Ex. 8, 3(c)	Solution: In	itial valu	ie = 13.5				
Pay Ev 9 2/h)	Colution: T	ao rocui	rod fur at!	on ic v = 0	0254 + 12	) E	
nev. Ex. 8, 3(D)	Solution: 11	ie requi	rea runctio	on is $y = 0$ .	.U35X + 13	5.5	
Rev Ev 2 2	Solution: T	ne lact +l	ree narts	should be	laheled (	h) than (1)	(ii) (iii) not (b) (c) (d)
INCV. LA. 0, 0	Joidholl. 11	ic iast ti	ii ee hai is	SHOULU DE	. iabeieu (	oj uleli (I)	,, (ii), (iii), iiot (b), (c), (u).
Rev. Ex. 8. 10(c)	Solution: It represents the cost of workmanship						
				d <mark>20</mark> km.			
	<u> </u>		60				
	Class Activity 5, (d)(v)  Class Activity 5, (d)(vi)  Class Activity 6, 6(b)  Class Activity 6, 6(c)(i)  Class Activity 6, 6(c)(iv)  Try It, 4(s)  Try It, 5  Try It, 5(b)  Ex. 8.1, 4(a)  Ex. 8.1, 10(a)  Ex. 8.2, 4  Ex. 8.2, 5(a)-(b)  Ex. 8.2, 5(c)(iv)	Last paragrapresentation  Class Activity 5, (d)(i)  Class Activity 5, (d)(ii)  Class Activity 5, (d)(v)  Class Activity 5, (d)(v)  Class Activity 5, (d)(v)  Class Activity 6, 6(b)  Class Activity 6, 6(c)(i)  Class Activity 6, 6(c)(i)  Answer: Or  Class Activity 6, 6(c)(iv)  Answer:  points.  Try It, 4(s)  Solution: The correctly.  Ex. 8.1, 5(a)(ii)  Ex. 8.1, 5(a)(iii)  Ex. 8.2, 4  Solution: The correctly.  Ex. 8.2, 4  Solution: The correctly.  Ex. 8.2, 5(c)(iv)  Solution: Or  Rev. Ex. 8, 2(a)  Rev. Ex. 8, 3(c)  Solution: The correctly or correctly.  Solution: The correctly.	Last paragraph, last presentation,  Class Activity 5, (d)(i)  Class Activity 5, (d)(ii)  Class Activity 5, (d)(v)  Class Activity 6, 6(b)  Class Activity 6, 6(c)(i)  Class Activity 6, 6(c)(iv)  Class Activity 6, 6(c)(iv)  Answer: Graphs (i) a Answer: graph (i points.  Try It, 4(s)  Class Activity 6, 6(c)(iv)  Answer: graph (i points.  Try It, 5  When David hits a solution: The line of 1 cm.  Try It, 5(b)  Ex. 8.1, 4(a)  Solution: In the challence of change in the challenc	Last paragraph, last line: a spresentation,  Class Activity 5, (d)(i)  Answer, The graphs (ii), (ii) an curve passes through the y-ax part of their curve, but have compared to the curve passes through the y-ax part of their curve, but have compared to the curve passes through the y-ax part of their curve, but have compared to the curve passes through the y-ax part of their curve, but have compared to the curve passes through the y-ax part of their curve, but have compared to the curve passes through the y-ax part of their curve, but have compared to the curve passes through the y-ax part of their curve, but have counted to the curve passes through the y-ax part of their curve, but have counted to the curve passes through the y-ax part of their curve, but have counted to the curve passes through the y-ax part of y-ax	Last paragraph, last line: a simple propresentation,  Class Activity 5, (d)(i)  Answer, The graphs (ii), (ii) and (iv) have curve passes through the y-axis. Graphs part of their curve, but have different w.  Class Activity 5, (d)(v)  Graph (viii) (-1, 2)  Class Activity 5, (d)(v)  Graphs (i), (ii), (iii), (v), (vi), and (vii) meer cross the x-axis at two points.  Class Activity 6, (d)(v)  Class Activity 6, 6(c)(i)  Answer: On graph, change (vi) to (iv).  Answer: graph (iv) meets the axis at points.  Try It, 4(s)  Solution: The line of symmetry of the graph of the	Last paragraph, last line: a simple project on da presentation,  Class Activity 5, (d)(i)  Answer, The graphs (ii), (ii) and (iv) have the same curve passes through the y-axis. Graphs (ii) part of their curve, but have different widths.  Class Activity 5, (d)(vi)  Graph (viii) (-1, 2)  Class Activity 5, (d)(vi)  Graph (viii) (-1, 2)  Class Activity 5, (d)(vi)  Graph (viii) (-1, 2)  Class Activity 6, 6(b)  Answer: On graph, change (vi) to (iv).  Class Activity 6, 6(c)(i)  Answer: Graphs (i) and (ii) pass through  Class Activity 6, 6(c)(iv)  Answer: graph (iv) meets the axis at 2 points, points.  Try It, 4(s)  Solution: The line of symmetry of the graph is x = 1 cm.  Try It, 5  When David hits a soccer ball with his head,  Try It, 5(b)  Solution: In the chart, replace x with t and y with Ex. 8.1, 4(a)  Solution: Since the total charge increases by \$50 linear. Rate of change = \$50/car  Ex. 8.1, 10(a)  Solution: The graph is incorrect. Only the first poi correctly.  Ex. 8.2, 4  Solution: The solution is labeled incorrectly, and than (a), (b), (b), (c), (d).  Ex. 8.2, 5(a)-(b)  Solution: The graphs should be unlabeled and the and (iv).  Ex. 8.2, 5(c)(iv)  Solution: Delete part (d). Change (c) to (b). Move new (b):  Slope =  Rev. Ex. 8, 3(c)  Solution: The last three parts should be labeled ( Solution: Initial value = 13.5  Rev. Ex. 8, 3(b)  Solution: The last three parts should be labeled ( Solution: In the required function is y = 0.035x + 13  Rev. Ex. 8, 8  Solution: The last three parts should be labeled ( Solution: From the graph, from 8:30 to 9:00, Jim traveled 20 km.	Last paragraph, last line: a simple project on data collect presentation,  Class Activity 5, (d)(i) Answer, The graphs (ii), (ii) and (iv) have the same shape, a curve passes through the y-axis. Graphs (ii) and (ii) both papart of their curve, but have different widths.  Class Activity 5, (d)(vi) Graph (viii) (-1, 2) Graphs (i), (ii), (iii), (v), (vi), and (vii) meet the x-axis at one cross the x-axis at two points.  Class Activity 6, (d)(vi) Graph (viii); x = 1 Class Activity 6, (6(c)(i) Answer: On graph, change (vi) to (iv).  Class Activity 6, (6(c)(i) Answer: Graphs (i) and (ii) pass through  Answer: graph (iv) meets the axis at 2 points, and graph points.  Try It, 4(s) Solution: The line of symmetry of the graph is x = 3. Theref 1 cm.  Try It, 5(b) Solution: In the chart, replace x with t and y with h.  Ex. 8.1, 4(a) Solution: Since the total charge increases by \$50 for every linear. Rate of change = \$50/car  Ex. 8.1, 10(a) Solution: The graph is incorrect. Only the first point on the correctly.  Ex. 8.2, 4 Solution: The solution is labeled incorrectly, and should be than (a), (b), (b), (c), (d).  Ex. 8.2, 5(a)-(b) Solution: The graphs should be unlabeled and the parts fol and (iv).  Solution: The graphs should be unlabeled and the parts fol and (iv).  Solution: The units on the graph are incorrect. The x-axis s the y-axis should be Time (min).  Rev. Ex. 8, 3(c) Solution: The last three parts should be labeled (b) then (f).  Rev. Ex. 8, 3(c) Solution: The last three parts should be labeled (b) then (f).  Rev. Ex. 8, 8 Solution: The graph, from the graph, from 8:30 to 9:00, Jim traveled 20 km.

46	Ex. 9.1, 3(a)	Solution: Price of Anne's order
40	LX. 3.1, 3(a)	= \$3.49 + \$1.50 + \$0.89 + \$0.59
		- \$3.43 ° \$0.63 ° \$0.53
47	Ex. 9.1, 4(b)(ii)	Solution: Third line from bottom:
,	EX. 3.1, 4(b)(ii)	
		2,500 17,000 x 200%
49	Ex. 9.2, 2(b)	Solution: $= 13 \frac{1}{3} \text{ km/h}$
		- 13 - 11/11
50	Ex. 9.2, 4(b)	Solution: Average speed of Alicia for the whole journey
50	Ex. 9.2, 4(c)(ii)	Solution: The diagram below shows the distance-time graph of John and Alicia.
		os atom the stage and select site assumes time graph of some and times
52	Ex. 9.2, 8	Solution: However, after driving for 15 minutes, he realized that
52	Ex. 9.2, 9(b)(i)	Solution: Peter's speed during the first 5 minutes
		$=\frac{0.75 \text{ km}}{5 \text{ m in}}$
		$=\frac{750 \text{ m}}{300 \text{ s}}$
		= 2.5 m/s
52	Ex. 9.2, 9(b)(ii)	Solution: Peter's speed during the last 4 minutes
		$=\frac{0.75 \text{ km}}{4 \text{ min}}$
		$=\frac{750 \text{ m}}{240 \text{ s}}$
		= 3.125 m/s
		= 3.13 m/ <u>s (</u> rounded to 3 sig. fig.)
53	Ex. 9.2, 10	Solution: However, after cycling 5 km he realized he had
53	Rev. Ex. 9, 2(a)	Solution: When $t=2$ ,
		$y = (0.3 + (0.2 \times 2) = 0.7)$
		When t = 4,
		$y = (0.3 + (0.2 \times 4) = 1.1)$
		When t = 6,
		$y = (0.3 + (0.2 \times 6) = 1.5$ When $t = 2$ ,
		$y = (1.5 + [0.1 \times *(8 - 6)] = 1.7$
55	Rev. Ex. 9, 6	Question: After the goods were delivered at the second destination,
56	Rev. Ex. 9, 6(b)	Solution: From t2 to t3,
		distance the truck traveled
		= 0.5 km/min x 20 min
		= 10 km
		Total distance to second destination
	4 - 1	= 15 km + 10 km
L'	$\Lambda \Lambda \lambda$	= 25 km
56	Rev. Ex. 9, 6(c)	Solution: Total time taken to unload goods = 90 – 45
	, 5(6)	P = 45 min
66	Ex. 10.1, 11(a)	Solution: : the four sides of <i>PQRS</i> are equal, and all of its angles are equal to 90°.
30	LA. 10.1, 11(a)	John Line Tour Sides of FRAS are equal, and an of its angles are equal to 90.
1		
1 3		<b>,</b>

67	Ev. 10.2. 2/a)	Solution:			
67	Ex. 10.2, 2(a)	$b^2 + c^2 = 9.9^2 + 2^2 = 102.01$			
		$a^2 = 10.1^2 = 102.01$			
		$\therefore a^2 = b^2 + c^2$			
		$\Delta$ ABC is a right-angled triangle.			
67	Ex. 10.2, 3	Solution: $AD^2 + DC^2 = 8^2 + 24^2$			
		= 640			
		Remove the Note at the end.			
		nemove the Note at the end.			
77	Rev. Ex. 10, 8(c)	Solution:			
	-, -(-,	Area of $\triangle ABC = \frac{1}{2} \times Area \text{ of } ABCD$			
		$\frac{1}{2} \times AC \times h = \frac{1}{2} \times 240$			
		2 2 2			
80	Class Activity 1, 1(a)	Answer: Dr. Dr. C.			
		RS $R(-2, 1), S(-2, 3)$ $3-1=2$			
		$LM \mid L(3,-2), M(3, 1) \mid 1-(-2)=3$			
82	Class Activity 2, 1(c)	Answer: The lines AB, BC, and AC have the same slope.			
82	Class Activity 2, 1(c)	Answer: Second equation down on right hand side:			
02	Class Activity 2, 2(b)	•			
02	Cl A-+ii+ 2 2(-1)	EC = 6 - 0 = 6			
83	Class Activity 2, 2(d)	Answer: From (a), it is shown that the slopes of			
0.0	T " 0( )	From (b), it is also shown that the ratios			
86	Try It, 3(c)	Solution: Slope of $TV = 0-9$			
87	Trult 6/a)	-4-2			
87	Try It, 6(a)	Question: Change comma at end of sentence to a period.			
	Try It, 6(b)	Solution: Let the equation of CD be $y = -7x + c$ ,			
87 91	Try It, 7(b)	Solution: Since it passed through the equation of RS is $y = 5$ .			
91	Ex. 11.2, 1(h)	Solution: Slope of $PQ = \frac{3aq - 3ap}{aq^2 - ap^2}$			
		$=\frac{3a(q-p)}{a(q+p)(q-p)}$			
		a(q+p)(q-p)			
		$=\frac{3}{q+p}$			
		q+p			
-	5 44 0 0				
92	Ex. 11.2, 8	Solution: $3t^2 - t - 10 = 0$			
		(3t+5)(t-2)=0			
		$t = -\frac{5}{3}$ or $t = 2$			
		3			
93	Ex. 11.2, 10(a)	Solution: Slope of PQ = $\frac{0-(-3)}{}$			
		4 – (–2)			
	_				
93	Ex. 11.2, 10(b)	Solution: The products of the slopes of the adjacent sides			
94	Ex. 11.3, 1(d)	Solution: slope = 0			
96	Ex. 11.3, 6	Question: On the graph, the last label on the x-axis should be 4, not x.			
96	Ex. 11.3, 6	Solution: L5 is a vertical line that passes through $(3, 0)$ . The equation of L5 is $x = 3$ .			
	X/I  >	,,,			
		- L			

99	Rev. Ex. 11, 1(b)	Solution: $\therefore m = -\frac{3}{2}, \text{ and } y = -\frac{3}{2}x + c$
		$\therefore$ The equation of the line is $y = -\frac{3}{2}x - 8$
		Since (k, –5) lies on the line,
		$-5 = -\frac{3}{2}k - 8$
		$\frac{3}{2}k = -3$
		k = -2
99	Rev. Ex. 11, 2(d)	Question: Omit. RT cannot be found from the length of PQ using information students
		have currently been taught.
99	Rev. Ex. 11, 2(c)	Solution:
		QR = 6 + 6 = 12 units
		MP = 6 - (-3) = 9 units
		Area of $\Delta PQR = \frac{1}{2} \times 12 \times 9$
		$= 54 \text{ units}^2$
		- 34 units
100	Rev. Ex. 11, 2(d)	Solution: Omit. The solution does not make sense, and the length of PQ is not correctly calculated.
100	Rev. Ex. 11, 3(e)	Question: Find the coordinates of the point at which the line AC cuts the y-axis.
100	Rev. Ex. 11, 3(e)	Solution: Let $(0, t)$ be the point that $AC$ cuts the $y$ -axis. Slope of $AT$ = slope of $AC$ $\frac{t-2}{0-(-1)} = \frac{3-2}{4-(-1)}$
		$0 - (-1)  4 - (-1)$ $t - 2 = \frac{1}{5}$ $t = \frac{11}{5}$
		$t = \frac{t}{5}$ The required coordinates are $(0, \frac{11}{5})$
102	Rev. Ex. 11, 6(b)	Solution: : slope of $AC = $ slope of $AG$
102	Rev. Ex. 11, 6(b)	Solution: :. slope of $BD = $ slope of $BG$
102	Rev. Ex. 11, 7(d)	Solution: $AB^2 + BC^2 = (\sqrt{52})^2 + (\sqrt{20})^2$ = 72
103	Rev. Ex. 11, 9(a)	Solution: 4-2
		Slope of BD = $\frac{4-2}{(-5-9)}$
		$=-\frac{1}{7}$
1		Let the equation of the line be $y = -\frac{1}{7}x + c$
0	1 5	Since C(7, 8) lies on the line,
		$8 = (-\frac{1}{7})(7) + c$
		c = 9
		∴ The equation of the line is $y = -\frac{1}{7}x + 9$ .
107	Ch12, (b)(i)	Solution: For n = 2, the 5 centers of
	/\~/\'/	
		Let N be the center of ABCD,
107	Ch12, (b)	Solution: For n = 3, the vertical distance between 2 centers in

	1	
110	Try It, 8(b)	Solution: Second to last line: = $362.88\pi$
117	Ex. 12.1, 12	Solution: Volume of the pyramid = x 7562 x 480.6
		= 7.16 x 107 ft2 (rounded to 3 sig. fig.)
119	Ex. 12.2, 8(a)	Solution: $\pi \times 2^2 \times y = \pi \times 6^2 \times 5$
121	Ex. 12.2, 15(c)	Solution: $= \left[ \left( 2 \times \pi \times \frac{4}{5} \right) \times (2 \times 100) \right] +$ (first term should to be squared.)
122	Ex. 12.3, 3(b)	Solution: The height of the cone is given as 25 cm.
		Delete the first 4 lines of the solution. Then:
		Volume of the cone
		$=\frac{1}{2}\times\pi\chi 7^{2}\times25$
		= $\frac{408.33\pi}{1,280 \text{ cm}^3}$ (rounded to 3 sig. fig.)
		= <u>1,200</u> cm (rounded to 5 3.8. 118.7)
135	Ex. 12.3, 13(b)	Solution: $\triangle rea  ext{ of trapezoid} = \frac{1}{2}(26 + 12 + 26 + 12) \times 16$
133	LA. 12.3, 13(b)	$\frac{1}{2}(20 \cdot 12 \cdot 12) \times 12 \times 12$
		= 608 in. <sup>2</sup>
		(rounded to 3 sig. fig.)
		Area of $EFG = \frac{1}{2} \times \pi \times \left(\frac{20}{2}\right)^2$
		= 157 in. <sup>2</sup>
		(rounded to 3 sig. fig.)
		Length of EFG = $\frac{1}{2}$ x 2 x $\pi$ x $\frac{20}{2}$
		= 31.4 in.
		(rounded to 3 sig. fig.)
135	Ex. 12.3, 13(b)	Solution:
	-, -(-,	Surface area
		$= 2(608 - 157) + [2(15) + (10\pi) + 2(20) + 26]$
		x5x12
		= <b>8,550</b> in. <sup>2</sup> (rounded to 3 sig. fig.)
135	Ex. 12.3, 13(c)	Solution: Volume of girder
	z zz) zz(c)	Ç
		= (608 – 157) x 5 x 12
	A.	= 27,100 in. <sup>3</sup> (rounded to 3 sig. fig.)
135	Ex. 12.3, 13(s)	Solution: Total weight
		= 0.28 x 27,100
		= 7,590 pounds (rounded to 3 sig. fig.)
135	Ex. 12.3, 14	Solution: Change the diagram; the diameters are 3 and 4, not the radii.
135	Ex. 12.3, 14(a)	Solution: Volume of material used
		$= (\pi \times 2^2 \times 1.2 \times 100) - ((\pi \times 1.5^2 \times 1.2 \times 100))$
		= 660 cm <sup>2</sup> (rounded to 3 sig. fig.)
125	Fig. 42.2.44/5	, , , , , , , , , , , , , , , , , , , ,
135	Ex. 12.3, 14(b)	Solution: Total surface area
1		$= 2(\pi \times 2^2 - \pi \times 1.5^2) + 2 \times \pi \times 1.5 \times 1.2 \times 100)$
		+ $(2 \times \pi \times 2 \times 1.2 \times 100)$
		= 2,650 cm <sup>2</sup> (rounded to 3 sig. fig.)
_		

135	Ex. 12.3, 14(c)	Solution: Vo	olume of water					
	2 22.0) 2 .(0)							
			π x 1.52 x 25 x 1 10,600 cm <sup>3</sup>		undad ta	2 sig fig \		
		_	10,000 cm	01)	unueu to	3 sig. fig.)		
135	Ex. 12.3, 14(d)	Solution: $48 \times 30 \times h = 10,600$						
					ounded to	3 sig. fig.)		
136	Ex. 12.3, 15(b)	Colution, To		•		- 0 0,		
130	LX. 12.3, 13(b)	Solution: Total surface area						
		=	$= 2(4 \times 7) + 2(\frac{1}{4})$	xπ <u>x</u> 7²)				
			+ 20 x (7 + 4 +	7+4+(	$\frac{1}{4} \times 2 \times \pi$	<u>x</u> 7)		
		$= 56 + \frac{49}{2}\pi + 440 + 70\pi$						
		=	= <b>793</b> cm <sup>2</sup>	(ro	unded to	3 sig. fig.)		
126	Fv. 12.2. 1F/d)	Caludian T		:	10			
136	Ex. 12.3, 15(d)	Solution: 10	Solution: Total lacquer required = 793 x 10					
		= 7,930 cm2						
		Bottles of la	acquer required =	= 2				
143	Try It, 1	Solution:	Fitness Grade	Ta	ally	Frequency		
			Α	++++ //		9		
			В	++++ +		11		
			C D	<del>////</del> //	##	10 4		
			F	///		2		
					Total	36		
143	Try It, 3(a)	Solution:	Shudanta	Call Consider	0+1- C	Total	<u> </u>	
1.0	,,,	0014110111	Students Action (A)	6th Grade 10	8th Grade	Total		
			Comedy (C)		5			
			Romance (R)	10 5	12	15 17		
			Total	25	25	50		
			Total	23	23	50		
148	Ex. 13.1, 3(a)	Solution:	Gender	Men	Women	Total		
			Approved of the proposal	21	98	119		
			Disapproved of	74	37	111		
			the proposal Total	95	135	230		
			(j) Total numbe				11	
149	Ex. 13.1, 5(c)	Question: F	ind the percenta	ge of stud	ents who	obtain <mark>ed</mark> gr	rade A or grade B.	
	A		•					
149	Ex. 13.1, 5(a)	Solution: In table, fitness grade, last row, change E to F.						
150	Ex. 13.1, 8(c)	Solution: More female students like to attend Drama, Chess, and Literary Club, a						
				attend Ma	th Club. D	rama Club I	has the highest attendance	
151	Ev 12.1 0/d\	among fem		/icthora	act profes	rod wooks:	nd leisure activity for men.	
151	Ex. 13.1, 9(d)	Solution:	. and watening IN	v is the mo	ost prefer	i eu weeken	u leisure activity for men.	
152	Ex. 13.2, 1(c)	Question: V	Vhich snack food	s were pre	eferred			
152	Ex. 13.2, 1(d)	Name the top three preferred snack foods among						
153	Ex. 13.2, 3(a)(ii)		n, replace E with					
153	Ex. 13.2, 3(a)(ii)	In the chart, replace E with F.						
157	Ex. 13.2, 10(c)	Solution: Chips were preferred by considerably more boys than girls.						
159	Ex. 13.3, 2		wn from 200 <mark>6</mark> to		d	lial line e d	uld == t= /2044 7.2\	
159	Ex. 13.3, 2(b)		ne graph is drawr e should extend		-		uld go to (2014, 7.3) and then	
		a uotteu IIII	e siloulu exteriu	nom tiidt	10 (2014,	7.0].		

159	Ex. 13.3, 3(b)	Solution: The price of the stock decreases in general,	
160	Ex. 13.3, 5(a)	Solution: The estimated slope is $-\frac{1}{15}$ .	
160	Ex. 13.3, 5(d)	Solution: There is a high negative correlation between the number of hours the students spent on online activities and their academic performance. The fewer the number of hours the students spent on online activities, the higher are their grade point averages.	
161	Ex. 13.3, 7(a)	Solution: The line graph is missing.	
161	Ex. 13.3, 7(b)	Solution: This is mislabeled as (a).	
161	Ex. 13.3, 7(b)(i)	Solution: = 1.77% (rounded to 3 sig. fig.)	
161	Ex. 13.3, 7(b)(ii)	Solution: $= \frac{4.24 - 4.19}{4.19} \times 100\%$	
163	Ex. 13.3, 10(a)	Solution: The data points for 2009 and 2010 are incorrect. They should be at (2009, 9.3) and (2010, 9.7). The line from 2011 to 2012 should be dotted, since it is estimated.	
163	Ex. 13.3, 10(b)	Solution: Between 2007 and 2010, There is a sharp increase of 4.7% to 2009, and a further increase of 0.4%, bringing unemployment rate to its highest in 6 years.	
164	Ex. 13.3, 12(c)	Solution: Solution shown is for (c)(i).	
164	Ex. 13.3, 12(c)(ii)	Solution: $y = \frac{1}{12}x + 2$	
165		Review Exercise 13	
165	Rev. Ex. 13, 1(b)	Solution: Basketball and soccer are equally popular among the students.	
166	Rev. Ex. 13, 2(b)	Solution: The choir club was the most popular.	
166	Rev. Ex. 13, 2(d)	Solution: Total number of girls = 4 + 13 + 10 + 12 = 39	
166	Rev. Ex. 13, 3(d)	Solution: The growth in height is greatest from age 11 to 14, and then slows down in the next four years. There is no increase in height from age 16 to 17.	
166	Rev. Ex. 13, 3(c)	Solution: The girl's height at age 18 is estimated to be 169 cm.	
166	Rev. Ex. 13, 3(d)(i)	Solution: $m = 60 + 0.9(h - 160)$ When $h = 168$ , m = 60 + 0.9(168 - 160) = 67.2	
166	Rev. Ex. 13, 3(d)(ii)	Solution: When $m = 63$ , 63 = 60 + 0.9(h - 160) 3 = 0.9(h - 160) $h - 160 = 3\frac{1}{3}$ $h = 163\frac{1}{3}$	
167	Rev. Ex. 13, 5	Question: and US Dollars (USD)	
168	Rev. Ex. 13, 6(a)	Solution: On the graph, Day 1 should have a temperature of 85°, not 80°.	
168	Rev. Ex. 13, 7(a)	Solution: y-axis label: Number of Beach Visitors x-axis label: Temperature (°F)	
169	Rev. Ex. 13, 8(a)(i)	Soluton: In the graph, there should be a point at (6, 80). There should not be points at (6, 100) and (6, 200).	
170-171	Class Activity 14	The figures do not need to be shown twice.	
173	Try It, 1	Solution: $x = -\frac{2}{5}$ or $x = 3$	

174	Try It, 7	Solution:	
1,4	11 y 10, 7	$2x^2 - 9x + 6 = 0$	
		$x^2 - \frac{9}{2} = -3$	
		2	
		$x^{2} - \frac{9}{2}x + \left(-\frac{9}{2}\right)^{2} = -3 + \left(-\frac{9}{2}\right)^{2}$	
		$\left(x-\frac{9}{4}\right)^2=\frac{33}{16}$	
		$x - \frac{9}{4} = -\sqrt{\frac{33}{16}}$ or $x - \frac{9}{4} = \sqrt{\frac{33}{16}}$	
		$x = -\sqrt{\frac{33}{16}} + \frac{9}{4} \text{ or } x = \sqrt{\frac{33}{16}} + \frac{9}{4}$	
		$x = \sqrt{\frac{16}{4}} + \frac{1}{4} = \sqrt{\frac{16}{4}} + \frac{1}{4}$ x = 0.814 or $x = 3.69$	
177	Ex. 14.1, 1(b)	Solution: $x^2 + 13x - 30 = 0$	
		(x+15)(x-2)=0	
		x+15=0 or $x-2=0$	
		x = -15 or $x = 2$	
177	Ex. 14.1, 1(c)	Solution: Last Line:	
	, _(.,		
		$x = -\frac{1}{2}$ or $x = 7$	
177	Ex. 14.1, 1(d)	Solution: Third line: $3x - 4 = 0$ or $x - 2 = 0$	
179	Ex. 14.2, 1(d)	Solution:	
	, , ,	$(7)^2$ $(7)^2$	
		$x^{2} + 7x + \left(\frac{7}{2}\right)^{2} = \left(x + \frac{7}{2}\right)^{2}$	
179	Ex. 14.2, 2(a)	Solution: Third line:	
	, _(,	x + 3 = -7 or $x + 3 = 7$	
179	Ex. 14.2, 2(b)	Solution: Third line:	
		5 3 5 3	
		$x - \frac{5}{2} = -\frac{3}{2}$ or $x - \frac{5}{2} = \frac{3}{2}$	
179	Ex. 14.2, 3(b)	Solution: Third line:	
		$x^{2}-14x+\left(-\frac{14}{2}\right)^{2}=5+\left(-\frac{14}{2}\right)^{2}$	
		$x - 14x + \left(-\frac{1}{2}\right) = 5 + \left(-\frac{1}{2}\right)$	
		Sixth line:	
		$x + 7 = -\sqrt{54}$ or $x - 7 = -\sqrt{54}$	
180	Ex. 14.2, 4(b)	Solution: Third line:	
		( 1)2 ( 1)2	
		$x^{2} - x + \left(-\frac{1}{2}\right)^{2} = 1 + \left(-\frac{1}{2}\right)^{2}$	
180	Ex. 14.2, 4(d)	Solution: Fourth line:	
/	/ ()		
		$x^{2} - \frac{14}{3}x + \left(-\frac{14}{6}\right)^{2} = -2 + \left(-\frac{14}{6}\right)^{2}$	
181	Ex. 14.2, 5(a)	Solution: Sixth line:	
	7 / /	13 . 205	
	$ \mathcal{N} $	$x + \frac{13}{2} = \pm \sqrt{\frac{205}{4}}$	
181	Ex. 14.2, 5(d)	Solution: First line:	
		2x(x-5) = 7(x+1)	
182	Ex. 14.3, 2(c)	Solution: Second line:	
10:	- 4.0.5	$11 - (4x^2 - 12 + 9) = 0$	
184	Ex. 14.3, 5	Question: Its vertical distance, h meters, from the ground	
186	Ex. 14.4, 6(a)	Solution: Second row, first column of table:	
188	Ex. 14.5, 2	y = 3x2 - 2x + 4  Solution: Fifth line:	
100	LA. 14.3, Z	Solution: Fifth line: $(x - 17)(x + 19) = 0$	
		[/v +://v + +2] = 0	

fig.)	
Solution: (24 x 17) + 12 = 420	
material under (b) up to the	
ng corrections, starting with	

195	Rev. Ex. 14, 11(b)	Solution: Perimeter of rectangle $\it A$
		$=2\left(x+\frac{16}{x}\right)$
		$=2\left(2.42+\frac{16}{2.24}\right)$
		=18.1 (rounded to 3 sig. fig.)
		Perimeter of rectangle B
		$=2\left[\left(x+2\right)+\frac{16}{x+2}\right]$
		$=2\left[\left(2.42+2\right)+\frac{16}{2.42+2}\right]$
		=16.1 (rounded to 3 sig. fig.)
		$\therefore$ Garden plot $ extit{A}$ has the greater perimeter.
195	Rev. Ex. 14, 12(a)(ii)	Solution: Second line: $2x^2 + 7x - 1,400 = 0$
195	Rev. Ex. 14, 12(c)	Solution: When x = -30.19, the number of gallons used when

